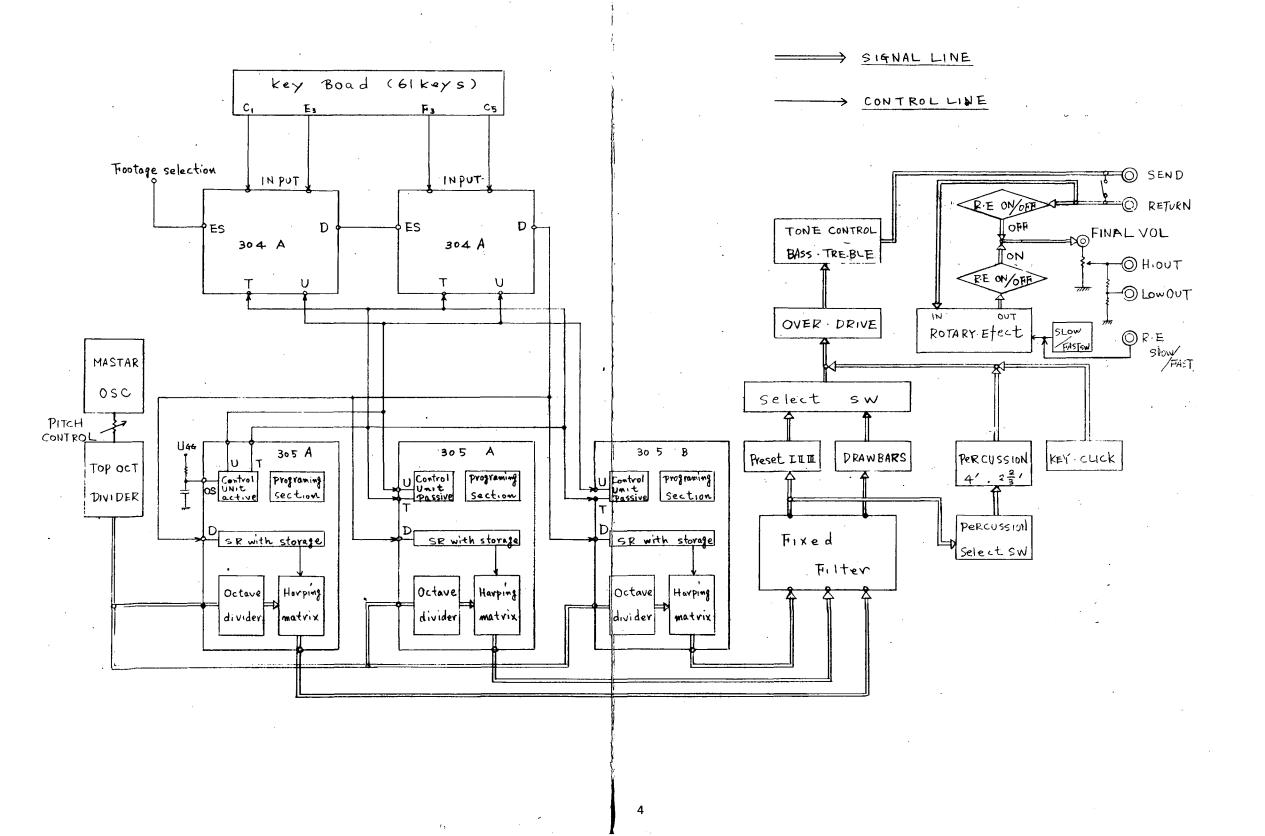
# KORG Portable Organ Tragbare Orgel Orgue Portatif

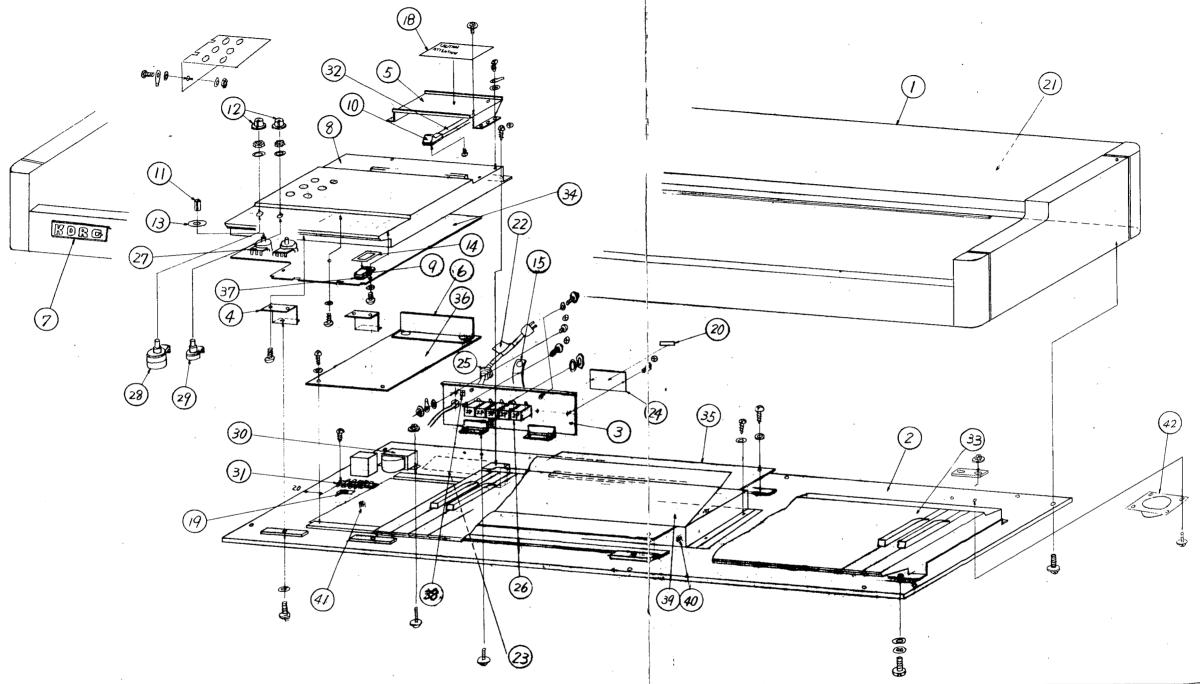


Sound Revolution KORG

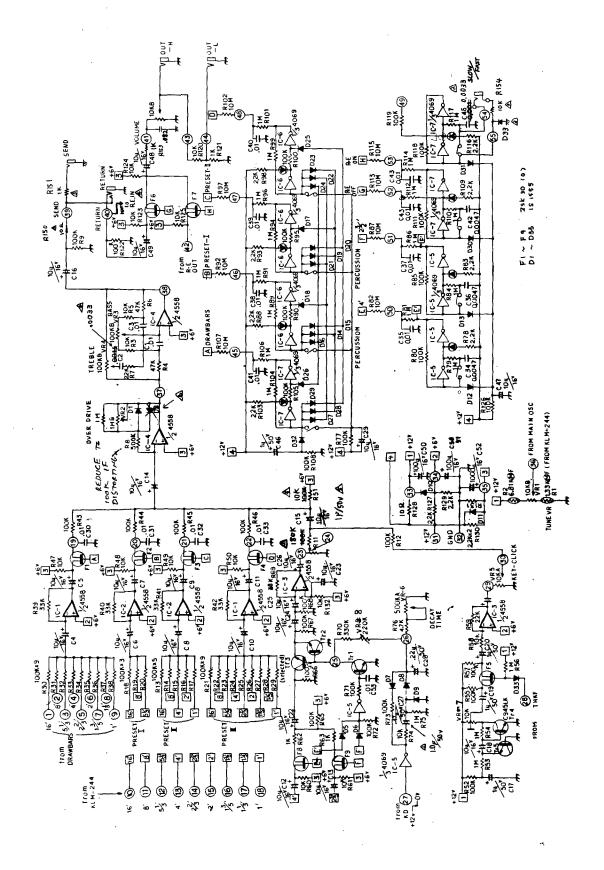
## 3. BLOCK DIAGRAM

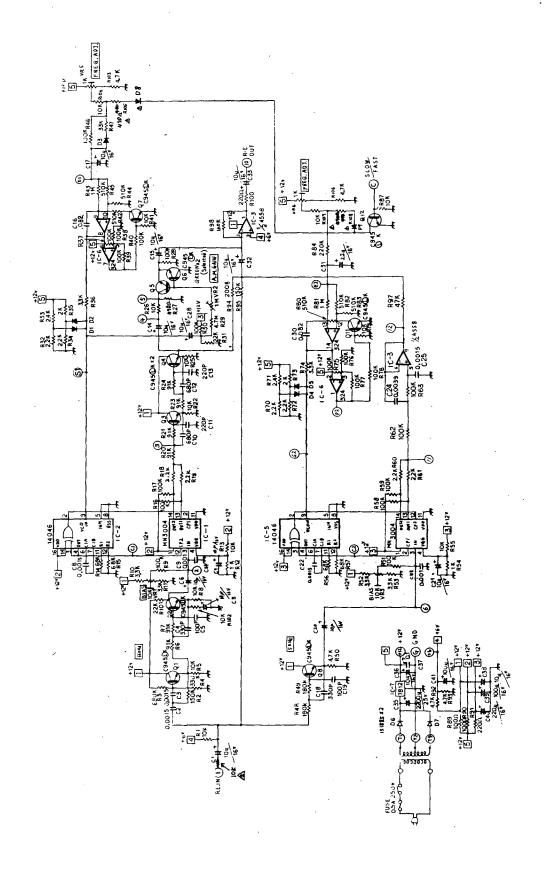


## 2. STRUCTURAL DIAGRAM

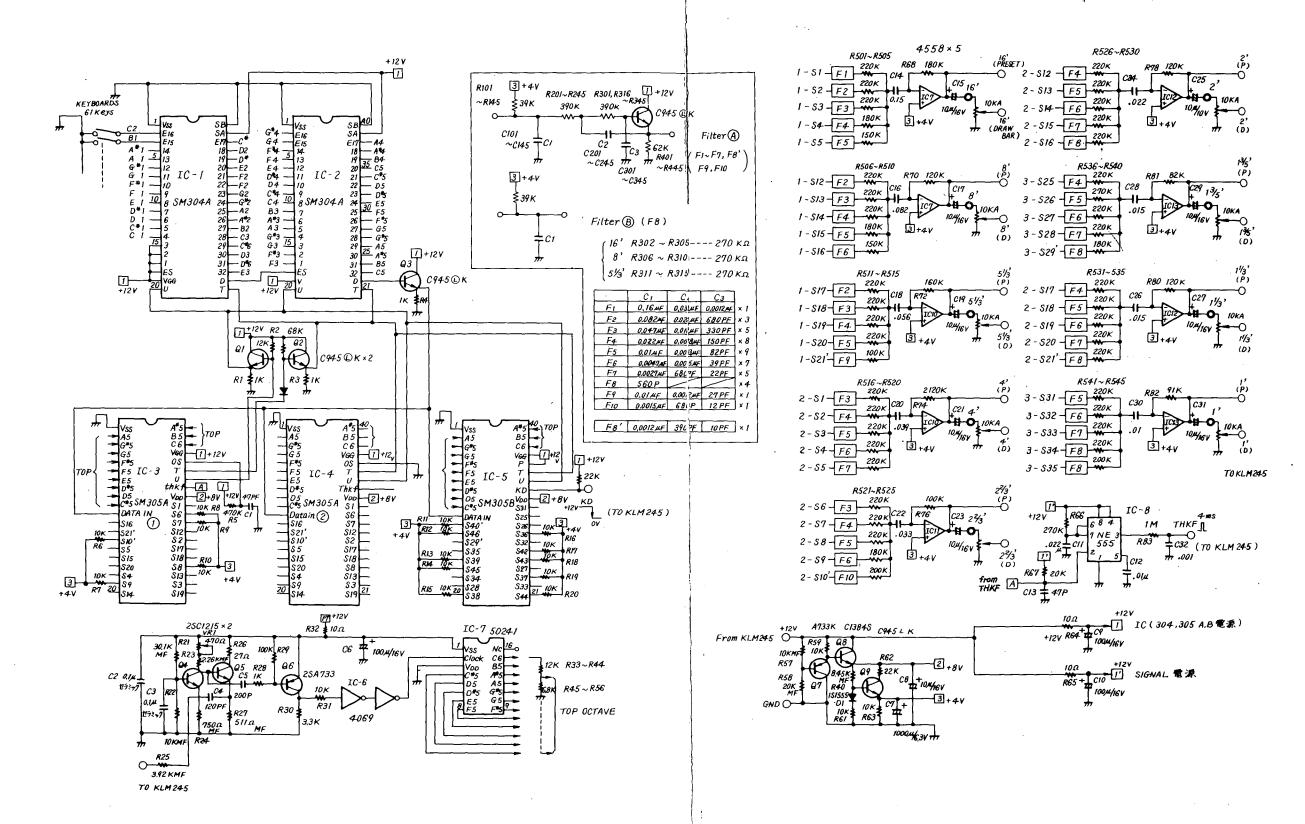


Item	Part Name	Remarks	Item	Part Name	Remarks	Item	Part Name	Remarks	Item	Part Name	Remarks
1.	Cabinet		11.	PS knob (sihall)		23.	Service caution seal		33.	Keyboard	
2.	Bottom	T	12.	Rotary kncb		24.	Model number plate		34.	Control circuit board	
3.	Rear panel		13.	Lever SW. mask		25.	Strain release bushing		35.	Main circuit board	
4.	Control panel mounting		14.	Selector SV mask		26.	Phone jack		36.	R.E. Circuit board	
5.	Draw bar holder		15.	Cord stopper		27.	Rotary variable resistors		37.	Selector SW	
6.	Radiation board		18.	Fuse caution seal		28.	Rotary variable resistors	1	38.	Earth (ground) seal	
7.	KORG Mark (Small)		19.	Fuse seal		29.	Rotary variable resistors		39.	Sealed cover	
8.	Control panel		20.	Serial number seal		30.	Power transformer		40.	Aluminum film	
9.	Selector SW knob		21.	KORG Mark seal		31.	Lug board		41.	Aluminum film	
10.	Draw bar knob		22.	Wiring causion (large)		32.	Draw bar		42.	Metal fitting of stand	

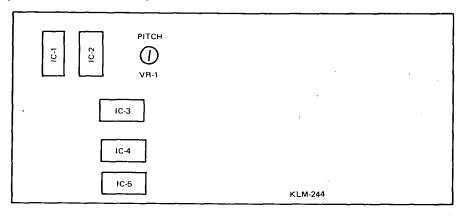


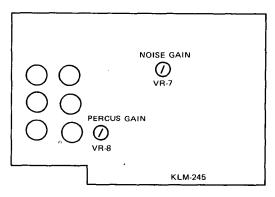


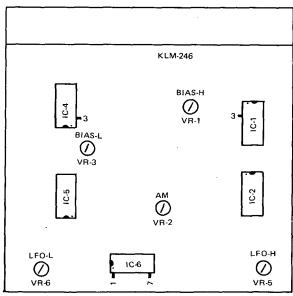
## 4. CIRCUIT DIAGRAM KLM-244



## Trimmer positions (reference chart)







# 8. PARTS LIST (Refer to structural diagram for parts list.)

PARTS NAME	SPECIFICATIONS	α'ΤΥ	PARTS SPECIFICATION	NS Q'TY
			CERAMIC CAPACITORS	
CARBON RE	ESISTORS (Not Listed)		561 (560 pt	=) . 4
SOLID RESI	STORS		ECK-F1E104ZFZ (0.1 µF	3
30LID KL31		8	ELECTROLYTIC CAPACITORS	
			0.22µ / 50V	1
	M RESISTORS	1 1	0.47	
<b>¼</b> V	V 1.33 KμF 6.81	1 1	10 / 16	24
	511	1	100	5
	750	i	1000 / 6.3V	1
	3.32	1 1	220 / 16	1
	3.92	1 1	1000 / 6.3	1
•	8.45	1 1	100 / 16	2
	10	2	2200 / 25	1
	20	1	22 / 16	1
	30.1	1 1	1 / 50	7
	2.32		10 / 16	22
	2.26	1 1	TRANSISTORS	
MYLAR CA	PACITORS		2SC945 LK	55
	V 0.001μF k	3	2SC945	4
]	0.0012	3	2SC1215T	2
	0.0015	13	2SC644R	1
	0.0022		2SC13849	] 1
	0.0027	5	2SA733AK	2
	0.0033	11	FET	U
(	0.0039	[ 1 {	2SK30	. 9
	0.0047	10		
	0.0068	8	DIODES	40
	0.01	27	1S1555 1S1885	2
	0.012	5	131000	
	0.022	13	IC	
ı	0.033	2	SM-304A	2
	0.047	5	SM-305A	2
	0.068		SM-305B	1
	0.082	7	NE-555	
1	0.16	1	S-50241	1 4
	0.056	1	MC-14069	. 10
	0.15	1	4458 MC-14046	2
	0.015	2	MN-3004	2
	0.039		μPC 324	1
-	APACITORS	ļ	14312 (7812)	1
1	7 pF G (5%)	1	<del></del>	<u>-</u> <u>'</u>
12	20 (1%)	1	SEMI-FIXED RESISTORS	
CERAMIC (	CAPACITORS		470ΩB H1051A	1
E	CK-D1H100 Dc (10 pF)	1	150	3
	120 K <sub>2</sub> (12 pF)	1	10KB	3
	220 (22 pF)	5	220	1
	270 (27 pF)	1	1MB	1
1	390 (39 pF)	7	100KB 1KB	. 2
	820 (82 pF)	9	<u> </u>	
1	101 (100 pF)	3	KEYBOARD	
	151 (150 pF)	8	ESK307V (61 key)	1
]	221 (220 pF)	3	FUSE	
	231 (330 pF)	7	250V 0.5A	1
1	391 (390 pF)	. 1		
1	681 (680 pF)	11	L-1205-6P	1
L	47 (47 pF)	1	L-1203-01	'

## 7. ADJUSTMENT PROCEDURE

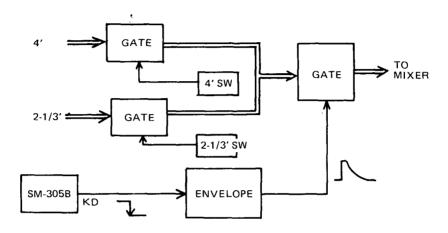
Caution: Very precise adjustments have been made at the factory, so be careful not to change any setting otehr than that which is out of order.

Circuit Board No.	SECTION	SETTINGS	ADJUSTMENT	ADJUST Vr. No.	Oscilloscope
KLM-244	KLM-244 PITCH		Play A and adjust to obtain a 0 cent reading.	VR-1	
	NOISE GAIN	SIGOUT(Hi) - OSCILLO.S SELECTOR - DRAW- BARS DRAWBARS - 0 KEYCLICK - MAX VOL - MAX	Adjust to get 0.5V ~0.7V key click sound when a key is played.	VR-7	0.5V 0.7V 0.7V 0.7V 0.7V 0.7V 0.7V 0.7V 0.7
KLM-245	PERCUS GAIN	SIG OUT(Hi)  OSCILLO.S  PERCUS VOL  MAX  PERCUS DE-  CAY — MAX  PERCUSSION  4'  SELECTOR  DRAW- BARS  DRAWBARS  -4'	Adjust so there is a 7:1~5:1 ratio between percussion 4' and drawbars 4'.	VR-8	7:1 5:1
	LFO (LOW)	ROTARY EFFE – FAST IC6-1 – f.counter	Adjust to obtain 145msec reading.	VR-6	
	LFO (HIGH)	IC6-7 — f.counter	Adjust to obtain 130msec reading.	VR-5	
KLM-246	BIAS (LOW)	IC4-3-Digital	Adjust to obtain 6.00V reading.	VR-3	
	BIAS (HIGH)	IC1-3-Digital	Adjust to obtain 6.00V reading.	VR-1	
	ам-н		*	VR-2	

<sup>\*</sup> The AM-H adjustment controls the high range volume fluctuation when the rotating speaker effect is turned on. Listen to the sound to confirm proper adjustment.

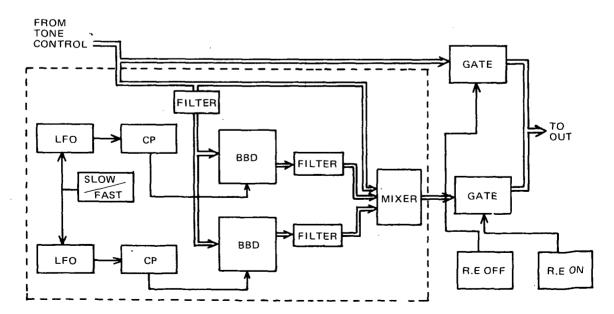
#### 4. Percussion circuit

The percussion circuit uses 4' and 2-2/3' signals. The envelope signal which controls the effect is produced with the SM-305B KD (key-down) single trigger.



#### 5. Rotary Effect circuit

Two BBD circuits are used to produce the rotary effect. The BBDs are IC-MN3004. Refer to the diagram



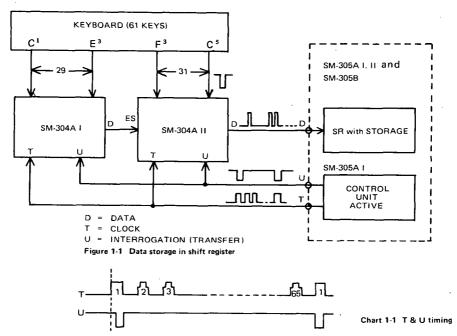
## 6. MAIN CIRCUIT EXPLANATIONS

Because the tone circuit is of the programming type, it can be used in many different ways. However, here is only explained how the circuit is used in the CX-3.

#### Tone circuit

IC-SM304A is a data processing IC designed for electronic organ applications.

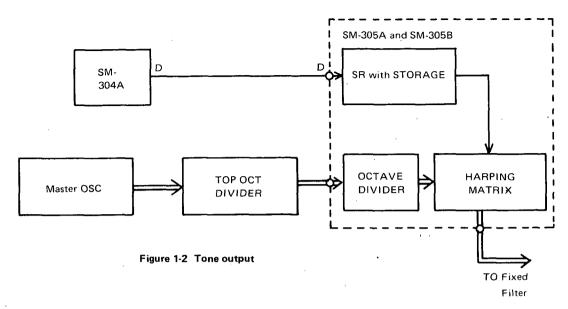
Data from the 61 keys on the keyboard is converted from a parallel control signal into a series control signal. After passing through the P/S (parallel-to-series) converter, the data is stored as D in the SR with storage of SM-305A and SM-305B.



U = Simply speaking, the transfer pulse identifies the beginning of the series.

T = The clock pulse counts from 1 to 65 bits. 4 of those bits are for footage group programming and 61 bits are for keyboard programming. Refer to chart 1-2.

	Pi	rogram	ming b	its	os			Sum	ming-o	ut puts	for pr	ogramn	ning			Footage
SM-	PB1	PB2	РВЗ	PB4		S10	S10' S9 S6 S7 S8				8	group				
305A	Н	Н	Н	Н	RC or H			1		VI	OD.	1		<u> </u>		3
	н	н	н	н	L						2					1
	Progra	Р		Summing-outputs for programming								Footage				
SM- 305B	РВ1	PB2	РВ3	PB4	_	S40'	S46	S39	S45	S38	S36	S42	S43	S37	S44	group
ĺ	Н	н	н	н	Н	VDD 2								4		
	ES	E1	E2	E3												L
	pr	esignati ogrami ts. for S		1												
- (								(	Chart	1-2 P	rogram	nming				



IC SM-305 includes shift register, octave divider, and harping matrix functions.

The data that had been transferred to the shift register is now transferred to the harping matrix.,

There the 12-tone octave divider and sound is produced in accordance with the data. Refer to figure 1-2.

#### Harping Matrix

SM-305A produces 3 footage groups.

Footage Group-1	4'	2-2/3.	2′	1-1/3′
Footage Group-2	8′	5-1/3′	4'	2-2/3'
Footage Group-3	16′	10-2/3′	8′	5-1/3′

SM-305B produces 2 footage groups.

Footage Group-4	1-3/5′	1′	2/3′	1/2′
Footage Group-5	4/5′	1/3′	1/4′	1/8′

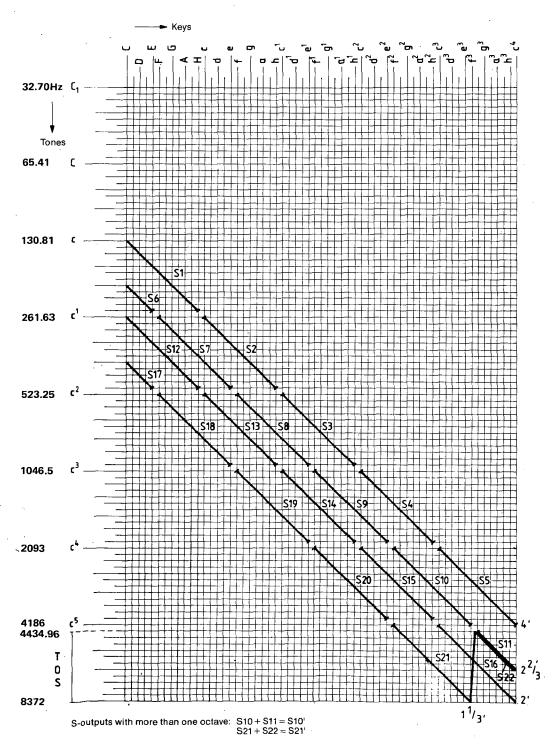
Footage groups used in the CX-3 are as listed below.

SM-3054-I	Footage group-3	(But without 10-2/3')
SM-3054-11	Footage group-1	
SM-3058	Footage group-4	(But without 2/3' or 1/2')

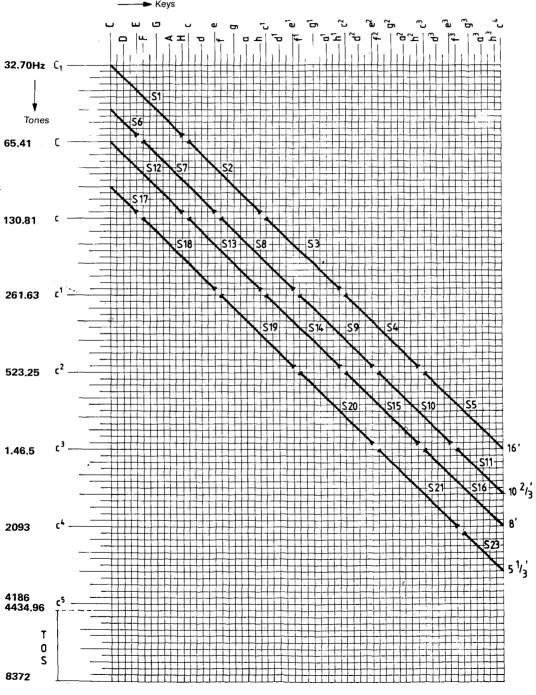
(Refer to the Harping matrix – footage group chart)

In other words, the top octave divider produces 12 frequencies — C# (4434.96Hz) D, D#...B, C (8372Hz) etc. For example, to get 4' C, which is 4 octaves lower, the 4186Hz is divided by 32 to obtain 130.81Hz (C). This note centered around VDD/2 is sent to tone out and from there to each of the fixed filters.

#### SM-305A-II Harping matrix for footage group 1

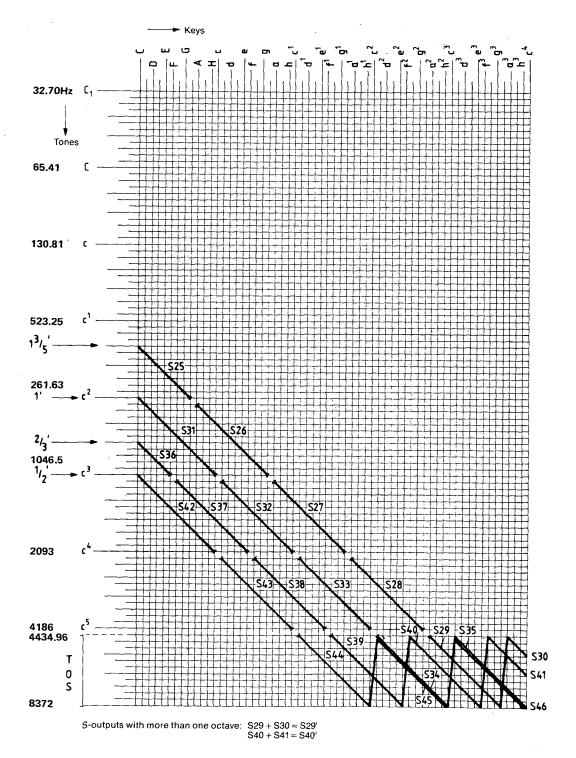


SA-305A-I Harping matrix for footage group 3



S-outputs with more than one octave:  $\begin{array}{ccc} S10+S11=S10^t\\ S21+S23=S21^t \end{array}$ 

## SM-305B Harping matrix for footage group 4



#### 2. Filter circuitry

There are fixed filters for each tone; separate outputs are provided for presets and drawbars; the selector buttons determine which gate is operated to pass the signal on to the mixer.

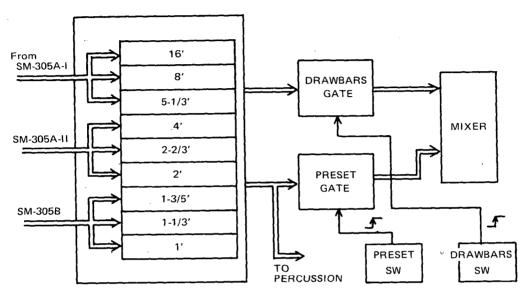
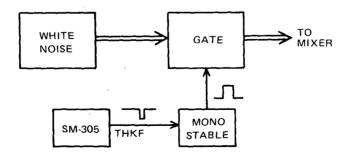


Figure 2-1 Filters

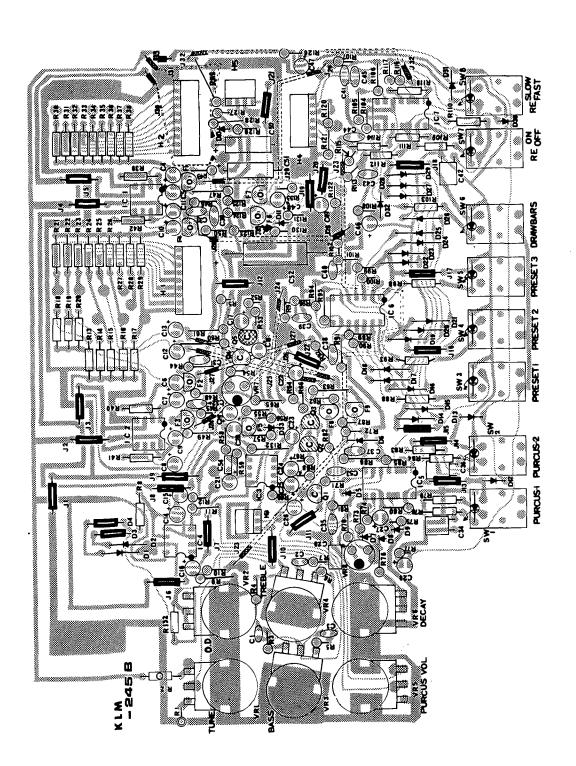
#### 3. Key-Click circuit

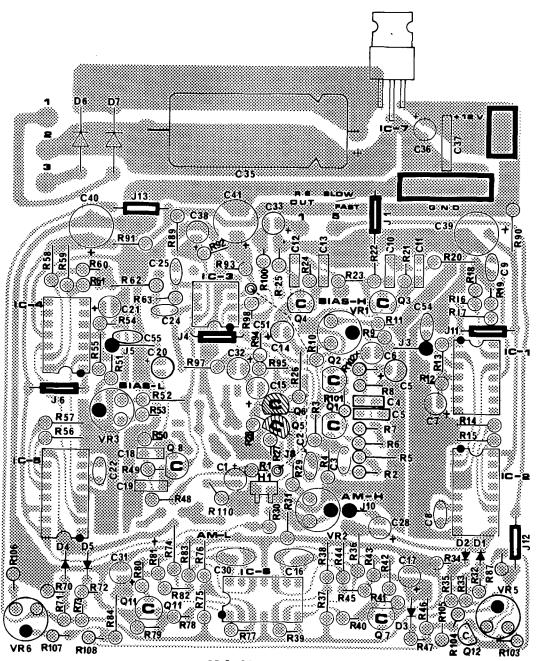
White noise is used to produce the key-click effect. The SM-305A THKF (multiple trigger) controls the effect.



NAME		SPECIFICATIONS	Q'TY
CONNEC	TORS	<u> </u>	
	CX3-	1 KO-131	1
		132	1
		121	1
		122	1
		123	1
		101 91	1
		71	1 1
		41	1
		21	1
		22	1
		92	1
		32	1
		TRC-1	1
		100	1
TOP EN	ΓRΥ		
႕	13P	(B13P-SHF-1)	2
쑤	12	(B12P-SHF-1)	3
	9	(B9B-SHF-1)	2
	3	(B3P-SHF-1)	1
	2P	(B2P-SHF-1)	2
BOTTON			
ŢŲ	10P		1
	9	(BE9P-SHF-1)	1
	7	(BE7P-SHF-1)	1
	4 3	(BE4P-SHF-1) (BE3P-SHF-1)	1
0011175			<u>'</u> '
PKINIE		CUIT BOARD 1244)	1
		n245)	1
		1246)	1
BUSHIN			
RO2WIN	ت SR-6۱	<i>N</i> -1	3
DOWED		SFORMER	
PUWER	JA-22		1
	JB-22		1
BUSHIN			
DO311114	4K-4		3
	5P-4		3
	-		ļ
			ļ
		•	
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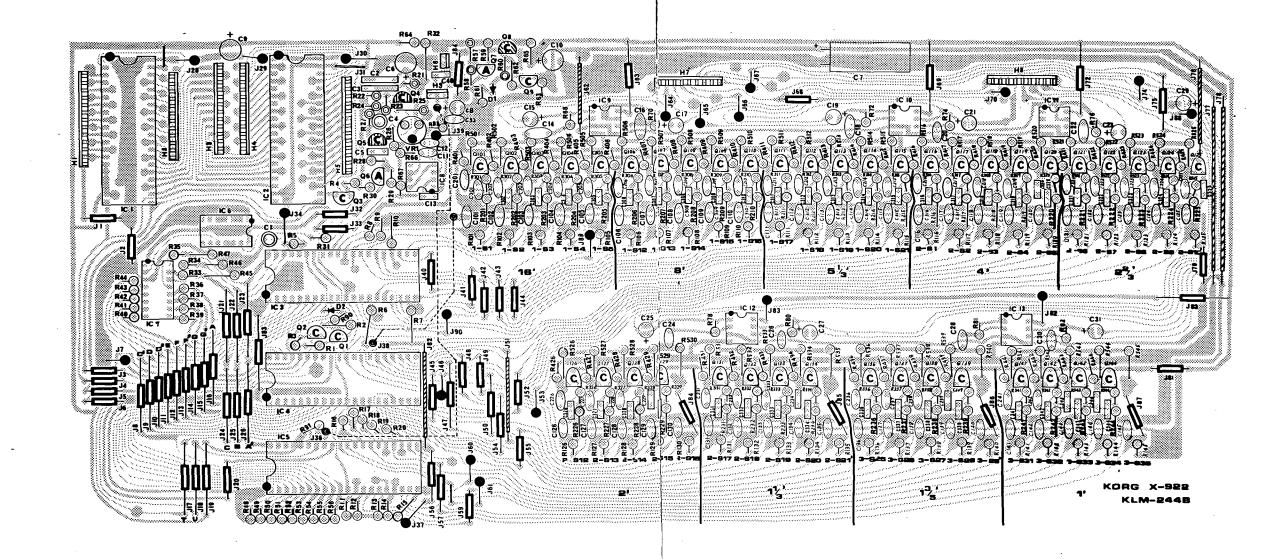
	PANEL INSTRUCTION	ON STANDARD
POTENT	IOMETERS	
	VOLUME	EVC-BO5P18B14
	KEY CLICK	EVH-8MA803A14
	TUNE	EVH-LOAS20B14
	OVER DRIVE	EVH-LOAS20B16
	BASS	EVH-LOAS20B15
	TREBLE	EVH-LOAS20B15
	PERCUS DECAY	
	PERCUS VOL	EVH-LOAS20A14
SLIDE V	VOLUME DRAWBAR x 9	S401XKA10KC
SELECT	SWITCH	
	SELECT × 8	KHC11901 with LED
ROTARY		1
	Rotary knob (Large) Rotary knob (Small)	
DRAWBA	AR KNOB	6. 4
	Drawbar knob 5-1/3'	(Ño.1
	Drawber knob 2-2/3'	2
	Drawbar knob 1-3/5'	1
	Drawbar knob 1-1/3' Drawbar knob 16'	4 5
	Drawbar knob 8'	( 6
	Drawbar knob 4'	. 7
	Drawbar knob 2'	Ivory \ \ 8
	Drawbar knob 1'	9
	Diamoar knob i	( 3
	Select knob (gray)	
	Select knob (Brown)	
PHONE .		
	RETURN	0929
	OTHERS × 4	0983
.4		
	•	•





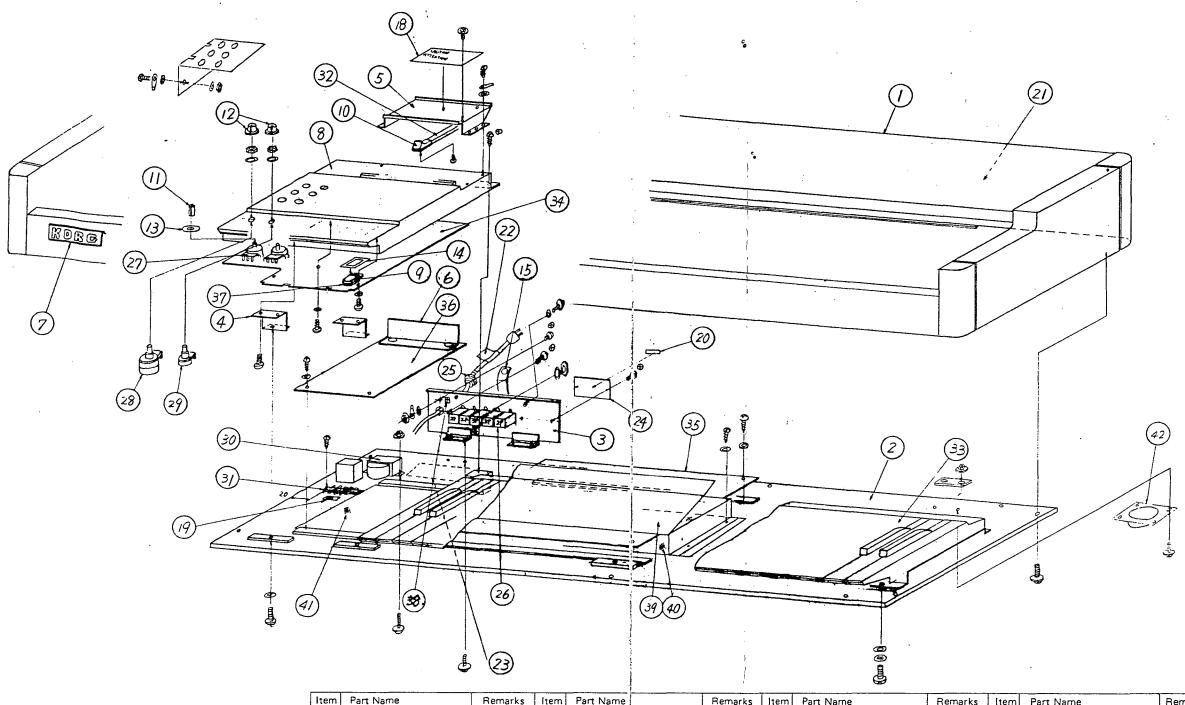
KORG KLM - 246C

## 5. PC BOARD



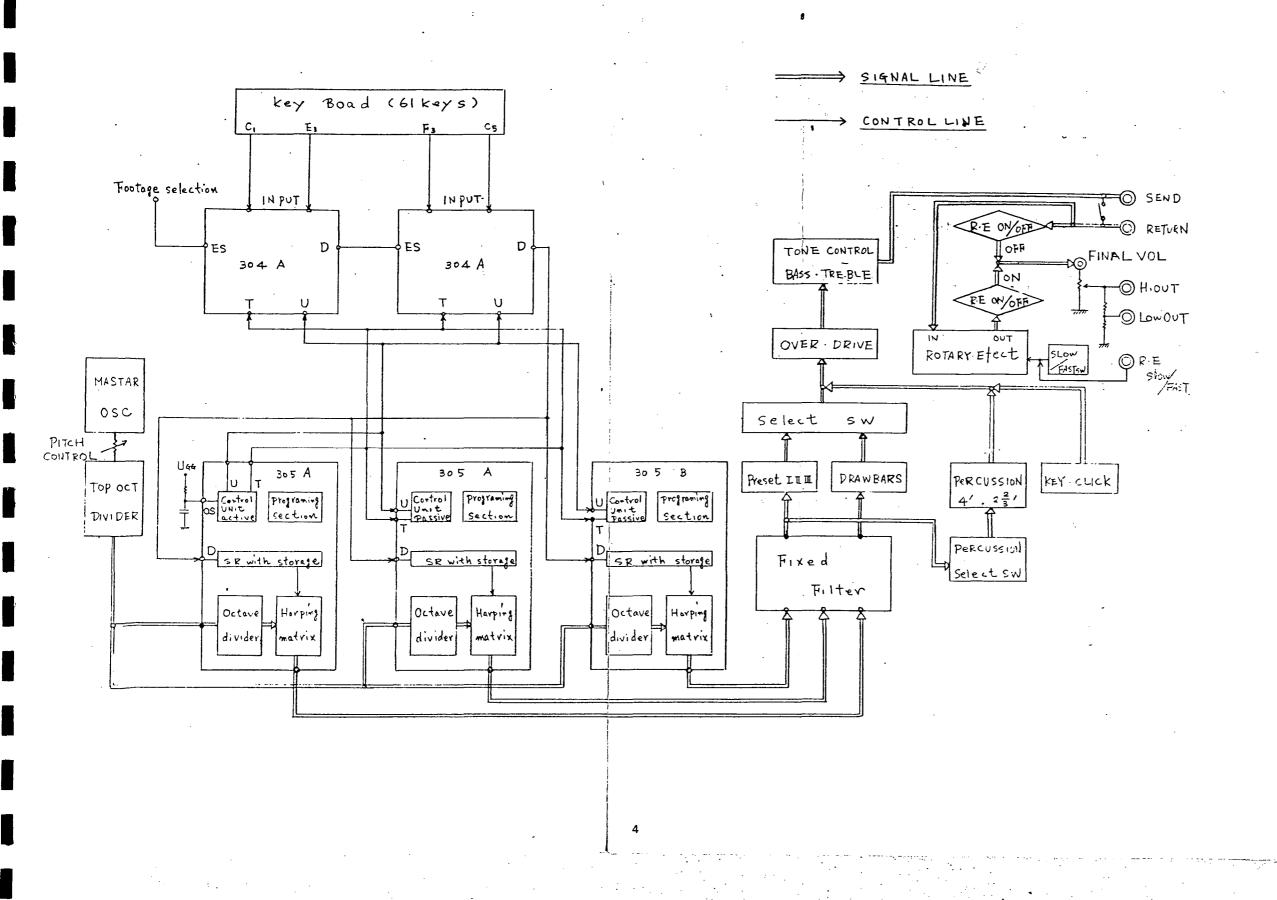
7

# 2. STRUCTURAL DIAGRAM

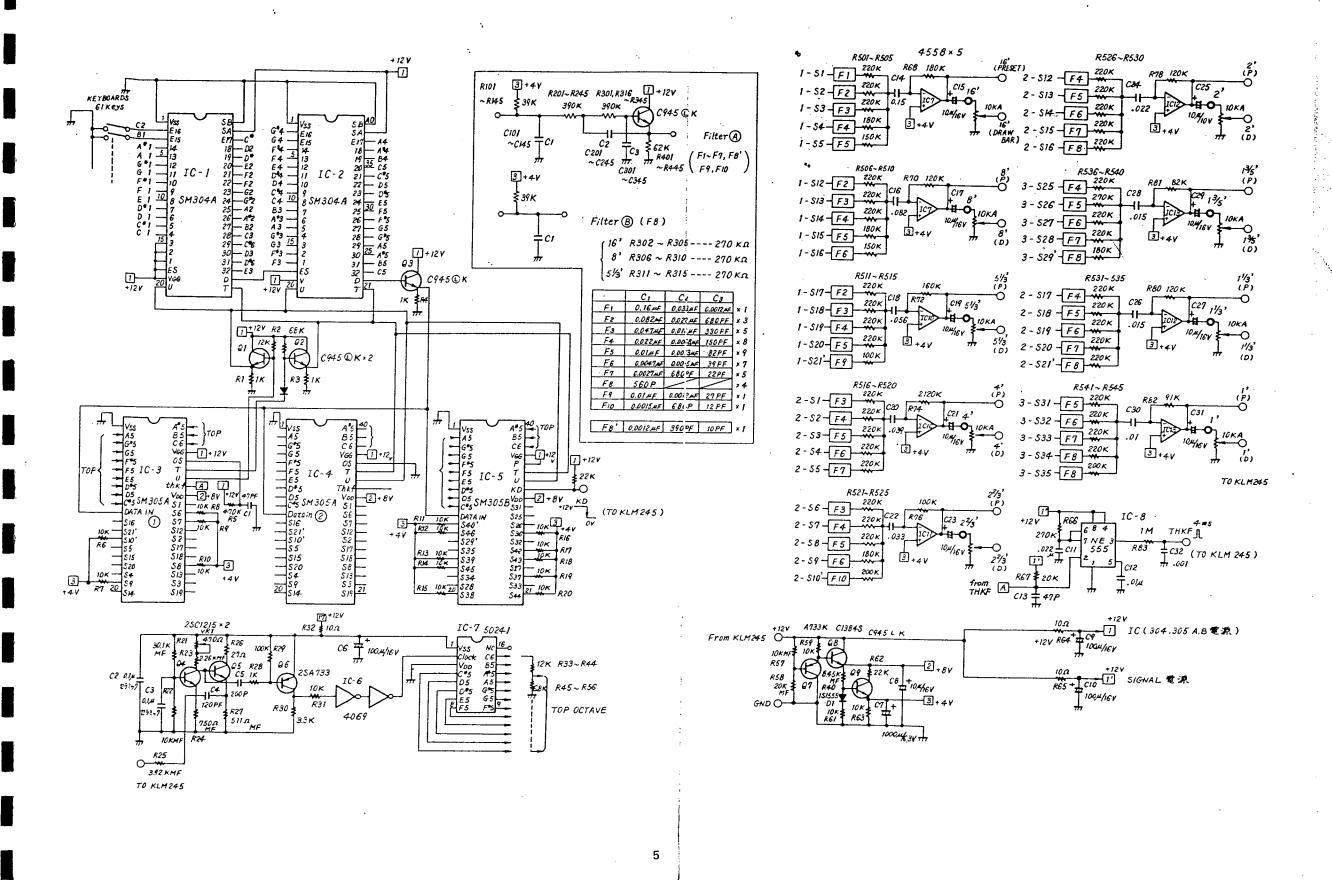


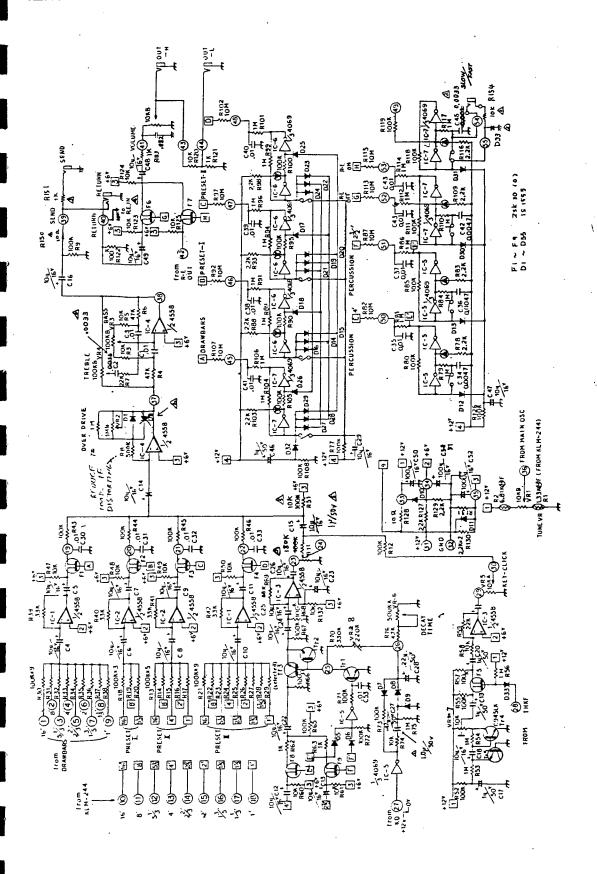
Item	Part Name	Remarks	Item	Part Name		Remarks	Item	Part Name	Remarks	Item	Part Name	Remarks
1.	Cabinet		11.	PS knob (si	nall)		23.	Service caution seal		33.	Keyboard	
2.	Bottom		12.	Rotary kno	ь		24.	Model number plate		34.	Control circuit board	
3.	Rear panel		13.	Lever SW. I	nask		25.	Strain release bushing		35.	Main circuit board	
4.	Control panel mounting		14.	Selector SV	/ mask		26.	Phone jack		36.	R.E. Circuit board	
5.	Draw bar holder		15.	Cord stopp	er		27.	Rotary variable resistors		37.	Selector SW	
6.	Radiation board		18.	Fuse cautic	n seal	-	28.	Rotary variable resistors		38.	Earth (ground) seal	
7.	KORG Mark (Small)		19.	Fuse seal			29.	Rotary variable resistors		39.	Sealed cover	
8.	Control panel		20.	Serial numl	er seal	)	30.	Power transformer		40.	Aluminum film	
9.	Selector SW knob		21.	KORG Mar	k seal		31.	Lug board		41.	Aluminum film	
10.	Draw bar knob		22.	Wiring caut	ion (large)		32.	Draw bar		42.	Metal fitting of stand	

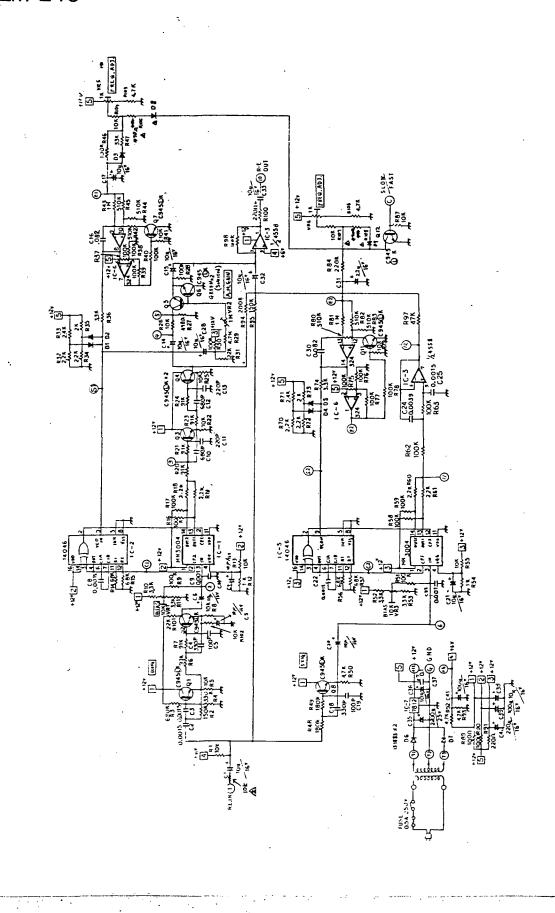
## 3. BLOCK DIAGRAM



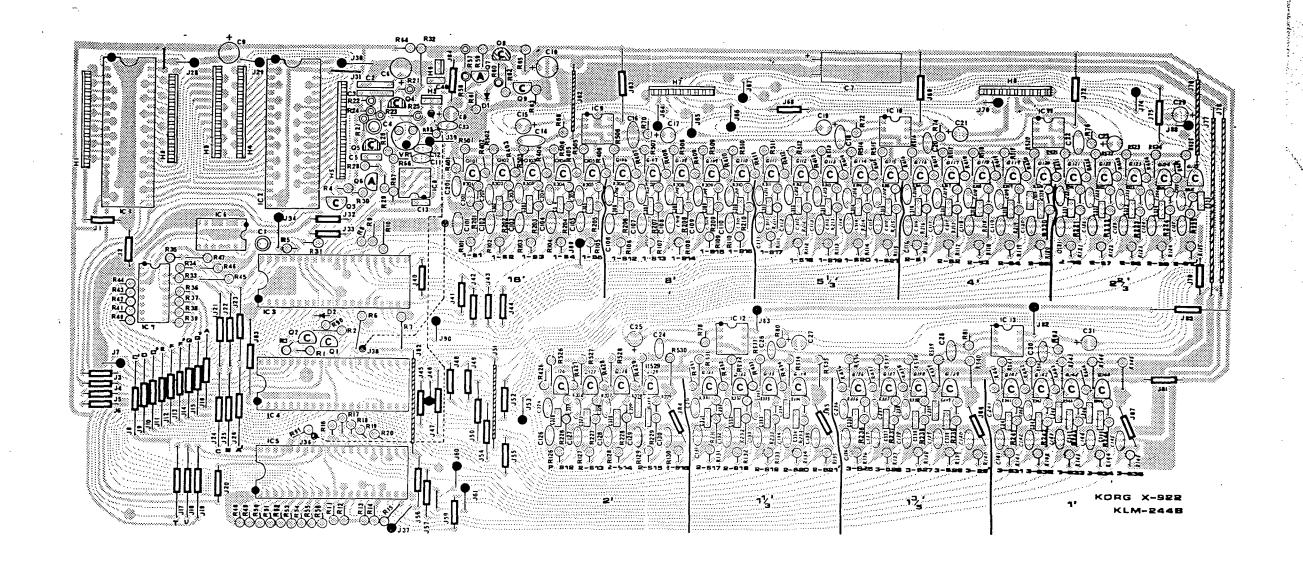
## 4. CIRCUIT DIAGRAM KLM-244

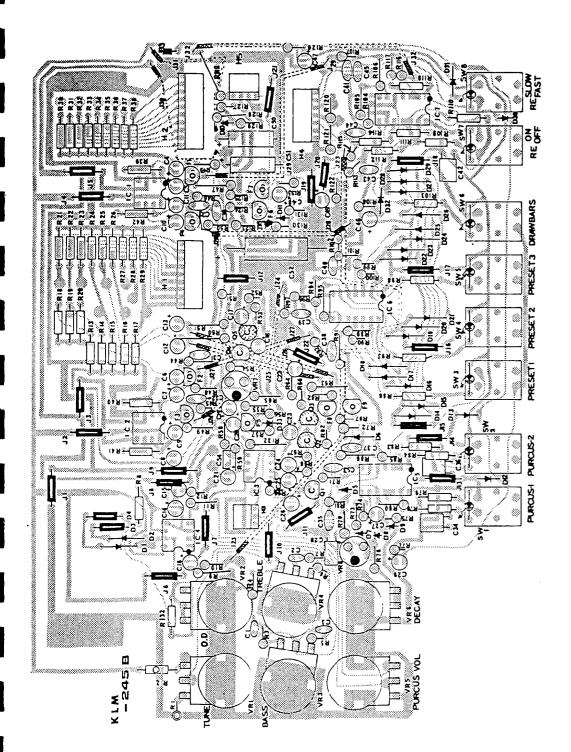


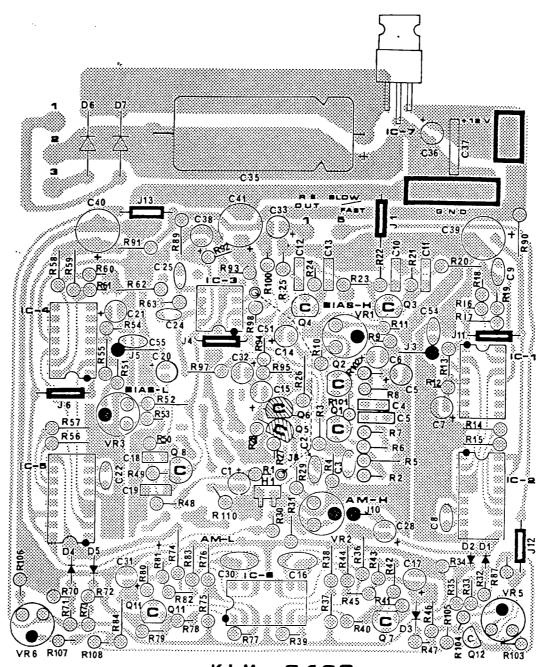




## 5. PC BOARD







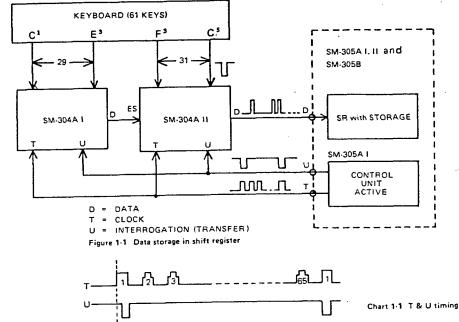
KORG KLM - 246C

# 6. MAIN CIRCUIT EXPLANATIONS

Because the tone circuit is of the programming type, it can be used in many different ways. However, here is only explained how the circuit is used in the CX-3.

IC-SM304A is a data processing IC designed for electronic organ applications.

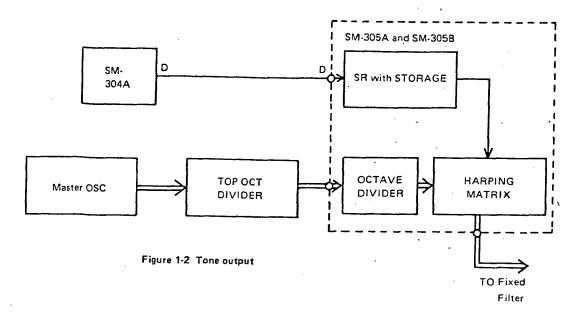
Data from the 61 keys on the keyboard is converted from a parallel control signal into a series control signal. After passing through the P/S (parallel-to-series) converter, the data is stored as D in the SR with storage of SM-305A and



U = Simply speaking, the transfer pulse identifies the beginning of the series.

T = The clock pulse counts from 1 to 65 bits. 4 of those bits are for footage group programming and 61 bits are for keyboard programming. Refer to chart 1-2.

	Pr	ogramı	ming bi	ts	os	Summing-out puts for programming										Footage
SM-	PB1	PB2	PB3	РВ4	03	S10	) <b>'</b>	s	S9		6 s		S7 S		8	group
305A	н	н	н	н	RC or H						סס					3
	н	н	н	н	L						2					1
	Progra	mming	bits	·			Summing-outputs for programming								Footage	
SM- 305B	PB1	PB2	РВ3	PB4	P	S40'	S46	S39	S45	S38	\$36	S42	S43	S37	S44	group
3036	н	н	н	н	н		VDD								4	
	ES	E1	E2	E3												
	р	rogram	ion of ming SM-30	4					Chart	1-2 P	rooran	nmina				



IC SM-305 includes shift register, octave divider, and harping matrix functions.

The data that had been transferred to the shift register is now transferred to the harping matrix.

There the 12-tone octave divider and sound is produced in accordance with the data. Refer to figure 1-2.

## Harping Matrix

SM-305A produces 3 footage groups.

Footage Group-1	4'	2-2/3.	2′	1-1/3'
Footage Group-2	8′	5-1/3'	4'	2-2/3'
Footage Group-3	16'	10-2/3'	8′	5-1/3'

SM-305B produces 2 footage groups.

Footage Group-4	1-3/5′	1′	2/3'	1/2'	
Footage Group-5	4/5'	1/3'	1/4'	1/8'	

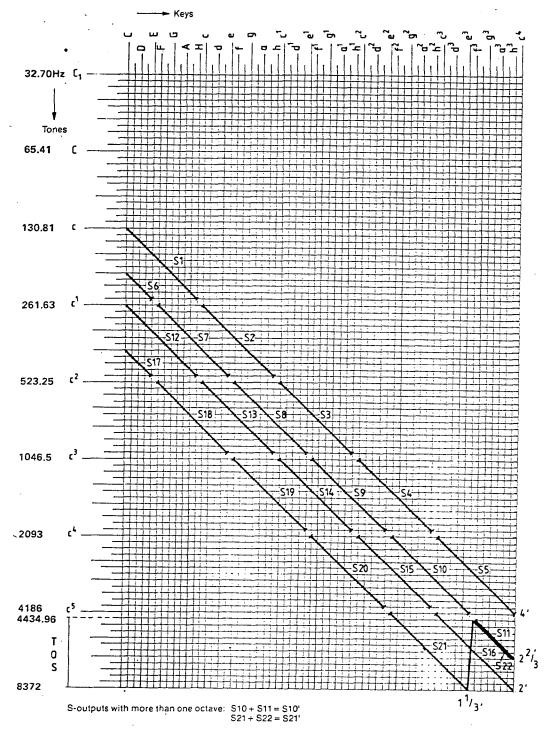
Footage groups used in the CX-3 are as listed below.

SM-3054-1	Footage group-3	(But without 10-2/3')
SM-3054-11	Footage group-1	
SM-3058	Footage group-4	(But without 2/3' or 1/2')

(Refer to the Harping matrix – footage group chart)

In other words, the top octave divider produces 12 frequencies — C# (4434.96Hz) D, D# ... B, C (8372Hz) etc. For example, to get 4' C, which is 4 octaves lower, the 4186Hz is divided by 32 to obtain 130.81Hz (C). This note centered around VDD/2 is sent to tone out and from there to each of the fixed filters.

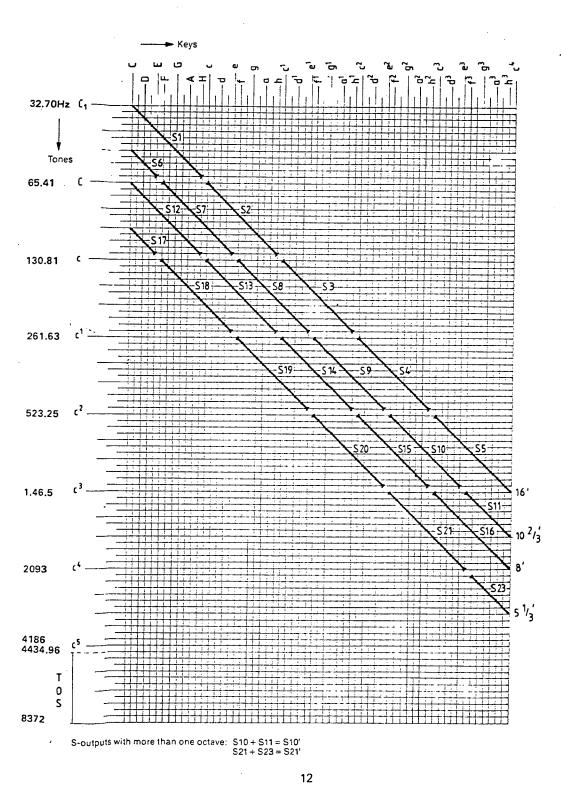
## SM-305A-II Harping matrix for footage group 1



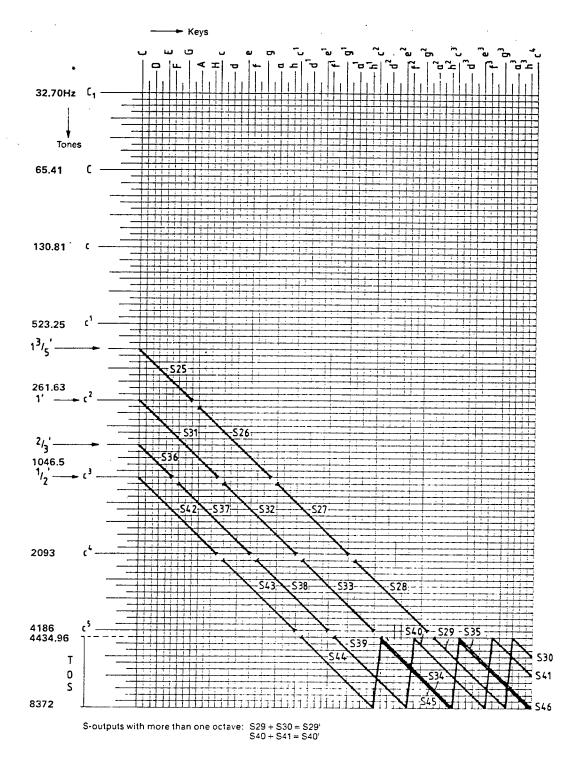
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## SA-305A-I Harping matrix for footage group 3



SM-305B Harping matrix for footage group 4



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### 2. Filter circuitry

There are fixed filters for each tone; separate outputs are provided for presets and drawbars; the selector buttons determine which gate is operated to pass the signal on to the mixer.

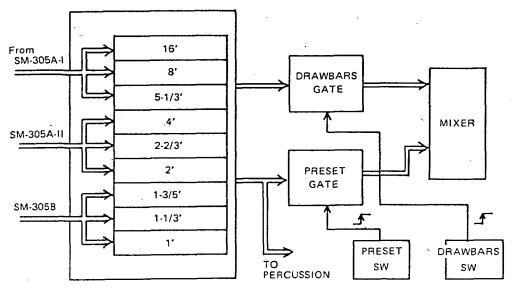
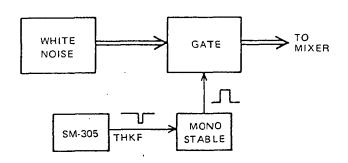


Figure 2-1 Filters

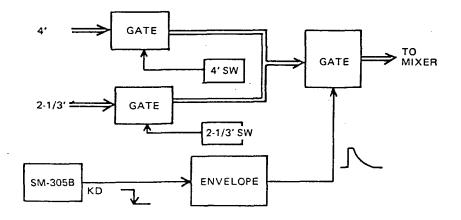
## 3. Key-Click circuit

White noise is used to produce the key-click effect. The SM-305A THKF (multiple trigger) controls the effect.



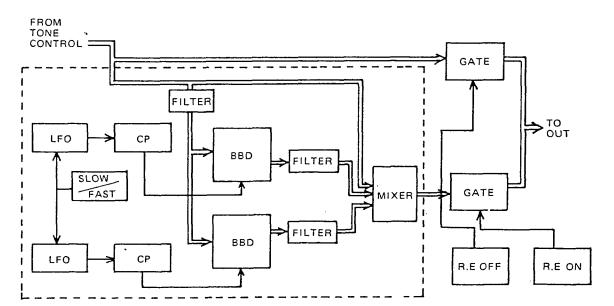
#### 4. Percussion circuit

The percussion circuit uses 4' and 2-2/3' signals. The envelope signal which controls the effect is produced with the SM-305B KD (key-down) single trigger.



### 5. Rotary Effect circuit

Two BBD circuits are used to produce the rotary effect. The BBDs are IC-MN3004. Refer to the diagram  ${}^{\circ}$ 



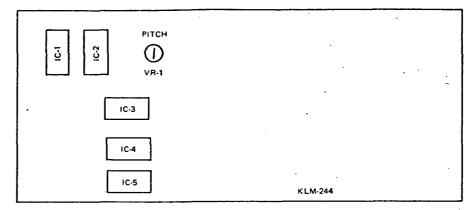
## 7. ADJUSTMENT PROCEDURE

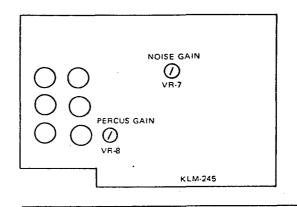
Caution: Very precise adjustments have been made at the factory, so be careful not to change any setting other than that which is out of order.

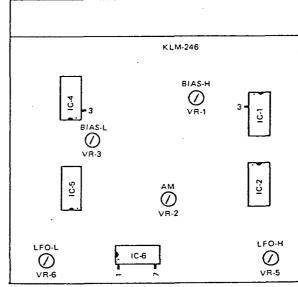
Circuit Board No.	SECTION	SETTINGS	ADJUSTMENT	ADJUST Vr. No.	Oscilloscope
KLM-244	РІТСН	TUNE  - CENTER SELECTOR - DRAW- BARS DRAWBARS - 8' SIG OUT - WT10A WT-10A-S/M - METER	Play A and adjust to obtain a 0 cent reading.	VR-1	
	NOISE GAIN	SIGOUT(Hi) - OSCILLO.S SELECTOR - DRAW- BARS DRAWBARS - 0 KEYCLICK - MAX VOL - MAX	Adjust to get 0.5V ~0.7V key click sound when a key is played.	VR-7	0.5V 0.7V 0.7V 0.7V 0.7V 0.7V 0.7V 0.7V 0.7
KLM-245	PERCUS GAIN	SIG OUT(Hi) - OSCILLO.S PERCUS VOL - MAX PERCUS DE- CAY - MAX PERCUSSION - 4' SELECTOR - DRAW- BARS DRAWBARS - 4'	Adjust so there is a 7:1~5:1 ratio be-	VR-8	7:1 5:1
	LFO (LOW)	ROTARY EFFE – FAST IC6-1 – f.counter	Adjust to obtain 145msec reading.	VR-6	
	LFO (HIGH)	IC6-7 — f.counter	Adjust to obtain 130msec reading.	VR-5	
KLM-246	BIAS (LOW)	IC4-3-Digital	Adjust to obtain 6.00V reading.	VR-3	
	BIAS (HIGH)	IC1-3-Digital	Adjust to obtain 6.00V reading.	VR-1	
	ам-н	·	*	VR-2	

<sup>\*</sup> The AM-H adjustment controls the high range volume fluctuation when the rotating speaker effect is turned on. Listen to the sound to confirm proper adjustment.

## Trimmer positions (reference chart)







# 8. PARTS LIST (Refer to structural diagram for parts list.)

PARTS NAME SPECIFICATIONS	Q'TY	PARTS SPECIFICATIONS	Q'T
CARBON RESISTORS (Not Listed)	·	CERAMIC CAPACITORS	
		561 (560 pF)	4
SOLID RESISTORS	1	ECK-FIE104ZFZ (0.1 μF)	3
¼W 10MrJ	8	ELECTROLYTIC CAPACITORS	
METAL FILM RESISTORS		0.22μ / 50V	1
½W 1.33 KμF	1	0.47	
6.81	1	10 / 16	24
511	1	100	5
750	1	1000 / 6.3V	1
3.32	1	220 / 16	1
3.92	1	1000 / 6.3	1
8.45	] 1	100 /16	2
10	2	2200 / 25	1
20	j 1	22 / 16	1
30.1	1	1 / 50 .	7
2.32	0	10 / 16	22
2.26	1	TRANSISTORS	
MYLAR CAPACITORS		2\$C945 LK	55
50V 0.001µF k	3	2SC945	4
0.0012	3	2SC1215T	2
0.0015	13	2SC644R	1
0.0022	1	2SC13849	1
0.0027	5	2SA733AK	2
0.0033	11	FET	
0.0039	1 1	2SK30	9
0.0047	10		_ <del>  9</del>
0.0068	8	DIODES	
0.01	27	1\$1555	40
0.012	5	1S1885	2
0.022	13	IC	
0.033	2	SM-304A	2
0.047	5	SM-305A	2
0.068		SM-305B	. 1
0.082	7	NE-555	1
0.16		S-50241	1
0.056	1	MC-14069	4
0.15	1	4458	10
0.015 0.039	2	MC-14046	2
		MN-3004	2
TYROL CAPACITORS	] []	μPC 324	1
47 pF G (5%)	j 1   j	14312 (7812)	1
120 (1%)	1	SEMI-FIXED RESISTORS	1
ERAMIC CAPACITORS		470ΩB H1051A	1
ECK-D1H100 Dc (10 pF)	1 1	150	3
120 K <sub>2</sub> (12 pF)	1 1	10KB	3
220 (22 pF)	5	220	1
270 (27 pF)	1 1	1MB	1
390 (39 pF)	7	100KB	
820 (82 pF)	9	1KB	2
101 (100 pF)	3	KEYBOARD	
151 (150 pF)	8	ESK307V (61 key)	1
221 (220 pF)	3	FUSE	
231 (330 pF)	7	250V 0.5A	1
391 (390 pF)	1		
681 (680 pF)	11	LUG BOARD	
47 (47 pF)	1 1	L-1205-6P	1 1

PARTS NAME	SPECIFICATIONS	Q'T'
CONNE	CTORS	$\top$
	CX3-1 KO-131	1
-	132	1
•	121	1
	122 123	1
	101	1 1
	. 91	1
	71	1
	41	1
	. 21	1
	22	1
	92	1
	32	1
	TRC-1	1
	100	1
TOP EN		
Q	13P (B13P-SHF-1) 12 (B12P-SHF-1)	3
•	9 (B9B-SHF-1)	2
	3 (B3P-SHF-1)	1
	2P (B2P-SHF-1)	2
OTTON	I ENTRY	
Ŋ	10P (BE10P-SHF-1)	1
IT	9 (BE9P-SHF-1)	1
	7 (BE7P-SHF-1)	. 1
	4 (BE4P-SHF-1) 3 (BE3P-SHF-1)	1
		1
HINIE	CIRCUIT BOARD (KLM244)	
	(KLM244)	1
	(KLM246)	1
BUSHING		
	SR-6W-1	3
OWER	TRANSFORMER	
	JA-221-12	1
	JB-221-12	1
USHING		
	4K-4	3
	5P-4	3
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PARTS NAME	PANEL INSTRUCT	ION STANDARD
POTENT	IOMETERS	
	VOLUME	EVC-BO5P18B14
	KEY CLICK	EVH-8MA803A14
	TUNE"	EVH-LOAS20B14
	OVER DRIVE	EVH-LOAS20B16
	BASS	EVH-LOAS20B15
	TREBLE	EVH-LOAS20B15
	PERCUS DECAY	EVH-LOAS20A55
	PERCUS VOL	EVH-LOAS20A14
SLIDE \	OLUME	
	DRAWBAR x 9	S401XKA10KC
SELECT	SWITCH SELECT x 8	KHC11901 with LED
POTABY		KHCT1901 WIIII LED
ROTARY	Rotary knob (Large)	18ø
	Rotary knob (Small)	•
DRAWRA	AR KNOB	
	Drawbar knob 5-1/3'	(No.1
	Drawbar knob 2-2/3'	1
	Drawbar knob 1-3/5'	, -
	Drawbar knob 1-1/3'	
	Drawbar knob 16'	5
	Drawbar knob 8'	( 6
	Drawbar knob 4'	7
	Drawbar knob 2'	Ivory \ 8
	Drawbar knob 1'	9
	Sta vou, knos 1	( 3
	Select knob (gray)	
	Select knob (Brown)	
PHONE J	ACK	
	RETURN	0929
	OTHERS x 4	0983
	•	• •
	,	
•		

CX-3 Service